

Utah State Energy Program Update

State Energy Program

April 20, 2010

American Recovery and Reinvestment Act 2009



State
Energy
Program
UTAH GEOLOGICAL SURVEY

Utah State Energy Program: Who are we?

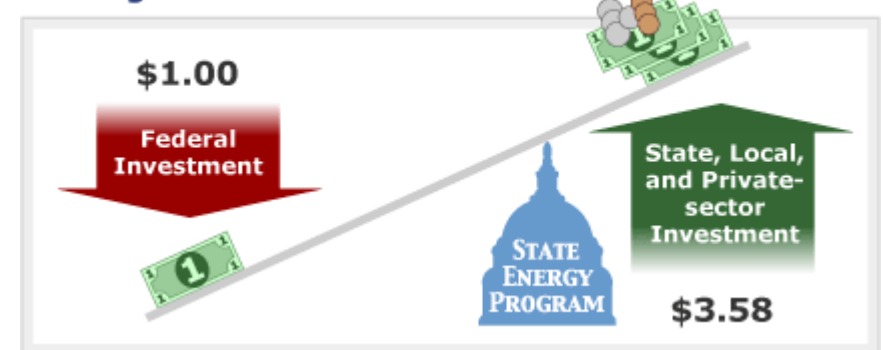
Partnership with Department of Energy (DOE) and the States

- Working with DOE, state energy offices address long-term national goals to:
- Increase the energy efficiency of the U.S. economy.
- Reduce energy costs.
- Improve the reliability of electricity, fuel, and energy services delivery.
- Develop alternative and renewable energy resources.
- Promote economic growth with improved environmental quality.
- Reduce our reliance on imported oil.
- <http://geology.utah.gov>

**Cost Savings from
the State Energy Program**



**State Energy Program
Leverages Additional Investment**



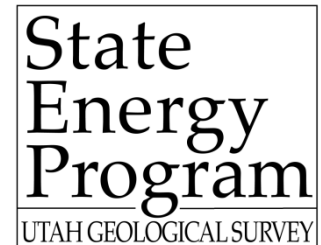
Utah State Energy Program Recovery Opportunities

- \$35.6 million: State Energy Program Formula Grant
- \$9.5 million: Energy Efficiency and Conservation Block Grant
- \$2.5 million ENERGY STAR Residential Appliance Rebate Program Grant
- \$452,000 Energy Assurance Planning
- All funding to be spent over next 2-3 years.

SEP GRANT MARKET AREAS OF ACTIVITY

1. Buildings
2. Electric Power and Renewable Energy
3. Energy Education
4. Industry
5. Policy, Planning and Energy Security
6. Transportation

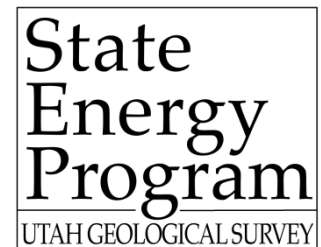
April 2010



DOE REPORTING CATEGORIES

- Jobs Created
- Energy Saved
- Renewable Energy Installed/Generated
- Greenhouse Gas Emissions Reduced
- Energy Cost Savings
- Funds Leveraged

April 2010



DISTRIBUTION OF FUNDS BY MARKET

- **Buildings**..... \$21,382,544 (60.5%)
- **Electric Power and Renewable Energy**..... \$11,090,000 (31.4%)
- **Energy Education**..... \$610,000 (1.7%)
- **Industry**..... \$300,000 (0.8%)
- **Policy Planning and Energy Security**..... \$490,000 (1.4%)
- **Transportation**..... \$346,937 (1.0%)
- **Administration**..... \$1,142,519 (3.2%)

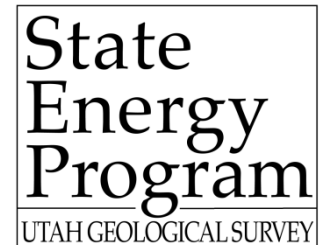
Utah Building Energy Efficient Strategies

Proposed DOE Funding: **\$1,500,000**

- Partnership with Governor's Energy Advisor and State Facilities
- Creates best-practices for energy efficiency
- Base-lining in state-owned buildings
- State buildings lead by example
- Best-practices taught via public education campaigns

Under Contract: August 2009
Program Status: Active

April 2010



Home Performance with ENERGY S TAR

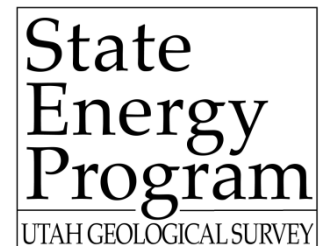
Proposed DOE Funding: \$4,500,000

- EE in existing residential infrastructure
- Home energy audit and prioritized retrofits
- Rebates may be provided
- Leverage existing utility rebates and complement current DSM programs
- Beginning contract Process with PECl
- Program Starts May (soft start) and June

Under Contract: May 2010

Program Status: Drafting Contract

April 2010



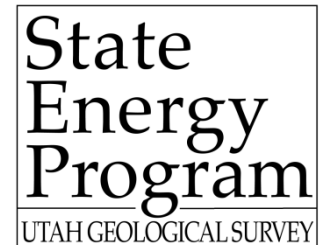
Energy Efficiency in State Buildings

Proposed DOE Funding: \$6,000,000

- Partnership with DFCM
- \$1.5M to revolving loan fund
- \$400,000 for expanded energy modeling
- Remainder to jump-start ESCO projects via 5-10% incentive grants
- Awards to University of Utah, SUU, Weber St., and USU

Under Contract: Feb 2010
Program Status: Active

April 2010



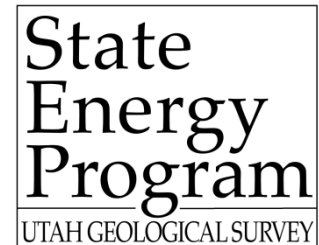
Energy Efficiency Grants for Schools

Proposed DOE Funding: **\$2,500,000**

- Grants for schools to incorporate energy efficiency
- SEP provides up to 50% in grant funding
- The other 50% may be available through SEP Revolving Loan Fund
- RFP closed end of March
- 70 apps., ~\$5 million requested

Under Contract: Pending
Program Status: Proposal Review

April 20101



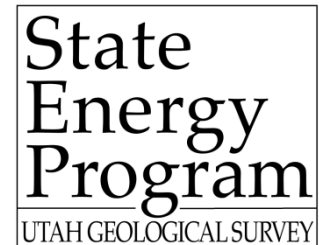
Utah SEP Public School Revolving Loan Fund

Proposed DOE Funding: **\$2,500,000**

- Loans enable public schools to implement energy efficiency
- Repayment schedule tied to energy savings (12-years or less)
- Zero-interest
- Schools may use this opportunity to meet the 50% match for the Energy Efficiency in Schools Grant Program
- 70 apps, ~5 million requested

Under Contract: Pending
Program Status: Proposal Review

April 2010



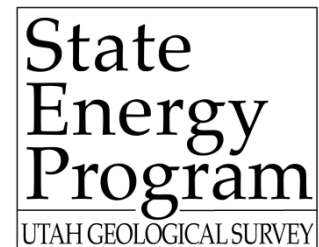
Utah SEP Public School Revolving Loan Fund

Proposed DOE Funding: **\$2,500,000**

- HB 318
 - Amended Eligibility to other Political Subdivisions
 - Rule writing required
- Waiting for DOE Guidance

Under Contract: Pending
Program Status: Proposal Review

April 2010



Competitive Grants for Energy Efficiency in the Building Sector

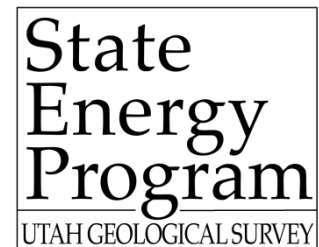
Proposed DOE Funding: \$1,000,000

- Competitive grants for energy efficiency projects involving buildings
- Opportunity for funding projects that are consistent with ARRA goals, but are not covered in other programs
- May be rolled into other programs

Under Contract: Pending

Program Status: RGA this summer or rolled into other program

April 2010



Renewable Energy Grants for State-owned Buildings

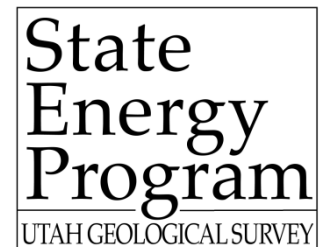
Proposed DOE Funding: \$4,000,000

- Partnership with DFCM
- Priority given to projects with excellent energy efficiency
- Carried out as a combination of PPAs and/or matching grants
- Third-party financing may be option

Under Contract: Feb 2010

Program Status: Proposal Review and drafting contracts

April 2010



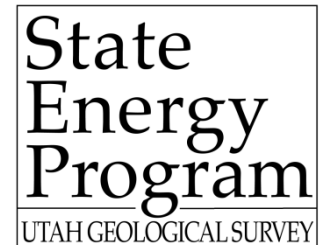
Solar for Schools

Proposed DOE Funding: **\$3,000,000**

- Solar PV in all 42 school districts (50-70 projects)
- Curricula integration for K-12
- Awarded to Johnson Controls (sub-contract with IWP)

Under Contract: Drafting
Program Status: Launch May 2010

April 2010



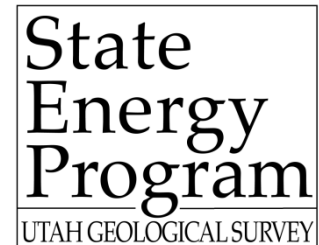
Renewable Energy Rebate Program

Proposed DOE Funding: \$3,000,000

- Rebates for small-scale renewable energy
- Geared toward residential and small commercial
- Rebates for a solar PV (\$2/watt), solar hotwater (\$30/sq. ft.), and wind (\$1.50/watt)
- Issued on a first come first served basis until allotted funds have been expended
- Started April 19th!

Under Contract: In-house
Program Status: April 19th

April 2010



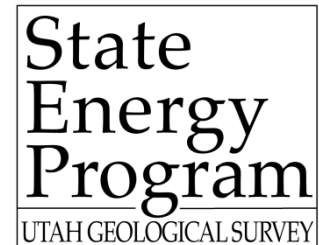
Renewable Resource Assessment Program

Proposed DOE Funding: **\$485,000**

- Expand & improve the services of the current anemometer loan program
- Improve quality of data
- Expand to assess for solar and/or geothermal
 - MT survey for Geothermal
 - Solar study in S. Utah

Under Contract: Under contract
Program Status: April for Solar

April 2010



Competitive Grants for Renewable Energy

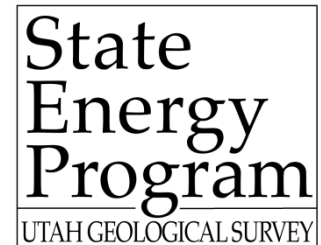
Proposed DOE Funding: \$1,000,000

- Modified to ~2.6 million
- Competitive grants for renewable energy projects
- Larger-scale private and municipal projects

Under Contract: On hold

Program Status: RFP summer 2010

April 2010



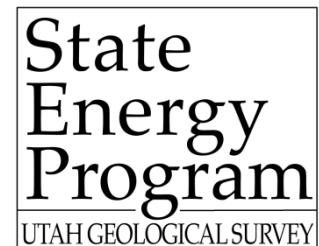
Energy Outreach, Education and Marketing Campaigns

Proposed DOE Funding: \$500,000

- Increase the adoption of EE/RE technologies and increase participation in SEP programs
- K-12, secondary, and adult education
- Energy working groups
- Maybe partnerships with utilities or local governments
- NEF, DFCM, LHM, UCE, NEF

Under Contract: January 2010
Program Status: Underway

April 2010



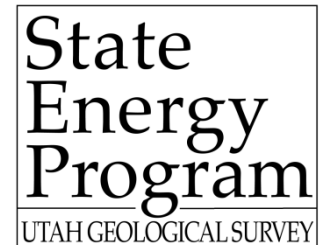
Energy Education and Efficiency Consultation for Industry

Proposed DOE Funding: \$300,000

- Goal: to implement efficiency measures that have a 5 year payback (or less)
- Training and tools for energy-saving practices
- Program Components:
 - “Save Energy Now”
 - Utilities’ DSM programs
 - Technical support for projects including CHP
 - Trainings and workshops
 - Industrial process and facility energy auditing
 - Case studies
 - Tracking and measuring of progress

Under Contract: Jan 2010
Program Status: Active

April 2010

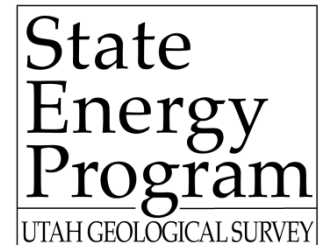


UREZ Task Force, Phase II

- Identify policies or market mechanisms to facilitate transmission planning and permitting
- Quantify cost-effective generation potential
- Identify necessary transmission to bring resources to market
- Funding for consultants and UREZ staff
- Report and model due June 2010

Estimated Annual Energy Savings: 7,074,052.03 MBtus
Estimated Jobs Created/Retained: 1

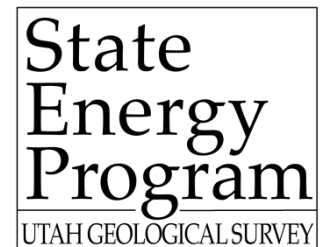
April 2010



Energy Efficiency Conservation Block Grant (EECBG) \$9,500,000

- Funds awarded in November
- RGA due January
- 36 awards to 52 cities and counties
- EE and RE projects on government buildings (street lights too)
- New staff hired for workload

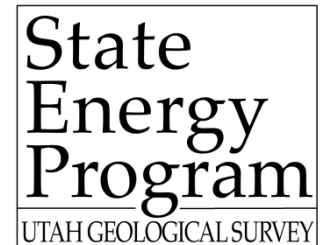
April 2010



Appliance Rebate Program

- ~2.6 million
- PEI contract signed yesterday
- Start date May 12th
- Eligible Appliances
 - Clothes washers, hot-water storage tanks, tankless water heaters, window a/c, 95% furnaces
- Mail-in rebate
- End date December 2010

April 2010



Challenges (in a nutshell)

- Timeline for disbursement of funds
- Complexity of Projects
- Reporting of Metrics
- NEPA
- SHPO
- Following state and federal guidelines (vague and concrete)

April 2010